

FHWA Update

Analysis: Regional and Project-Level Air
Quality Innovations and Resources
Subcommittee Meeting ADC20(1)

January 9, 2018

FHWA activities highlights

Mobile Source Air Toxics (MSATs)

- o Major update on guidance anticipated in 2018

FHWA activities highlights

Congestion Mitigation and Air Quality Improvement (CMAQ) Program

- o Project Tracking Database and Public Access System
 - o Additional reporting features available to support performance measure reporting
 - o Available for backfilling data for FY14-16 projects through Jan 12, 2018

http://www.fhwa.dot.gov/environment/air_quality/cmaq/reporting/

- o CMAQ Emissions Calculator Toolkit
 - o 5 modules of this spreadsheet-based tool available
 - o More modules available in 2018 including Transit service improvements and Bike/Ped projects

http://www.fhwa.dot.gov/environment/air_quality/cmaq/toolkit/

Tool	Eligible Project Types	Status
Congestion Reduction and Traffic Flow Improvements	<ul style="list-style-type: none"> • Intersection Improvements • Traffic Signal Synchronization • Roundabouts 	Now available!
Advanced Diesel Truck / Engine Technologies	<ul style="list-style-type: none"> • Vehicle Replacement • Engine Replacement • Heavy Duty Vehicle Retirement Program • Engine Rebuilding • Exhaust Retrofit • After Treatment Hardware/Devices • On-Board Emissions Control Devices 	Now available!
Alternative Fuels and Vehicles	<ul style="list-style-type: none"> • Fueling Facilities • Vehicle Purchase • Fleet Conversion • Engine Replacement • Hybrid Vehicles 	Now Available!
Carpooling and Vanpooling	<ul style="list-style-type: none"> • Carpooling • Vanpooling 	Now Available!
Transit Bus Retrofit and Replacement	<ul style="list-style-type: none"> • Diesel Engine Retrofits • Diesel Bus Replacement • Alternative Fuel Bus Replacement 	Now Available!
Transit Bus Service and Fleet Expansion	<ul style="list-style-type: none"> • New Transit Service • System or Service Expansion • New Vehicle Procurement • Fare Subsidies 	2018 Release
Diesel Idle Reduction Technologies	<ul style="list-style-type: none"> • Auxiliary Power Units • Direct-Fired Heaters • Truck Stop Electrification 	2018 Release
Bicycle/Pedestrian Improvements	<ul style="list-style-type: none"> • New Bicycle Lanes/Trails • New Sidewalks/Paved Shoulders • Bicycle Parking/Transit Racks/Storage • Maps for Bicyclists/Pedestrians • Lighting/Signs/Signal Improvements 	2018 Release

FHWA activities highlights

Congestion Mitigation and Air Quality Improvement (CMAQ) Program

- o CMAQ performance measures
 - o New web page with latest information including applicability determination
 - o CMAQ Performance Plan Guidance (for MPOs) available soon

https://www.fhwa.dot.gov/environment/air_quality/cmaq/measures/

FHWA activities highlights

Transportation Conformity

- o Carbon Monoxide Categorical Hot-Spot Finding with MOVES2014a (July 2017)
https://www.fhwa.dot.gov/environment/air_quality/conformity/policy_and_guidance/cmcf_2017/index.cfm
- o Comprehensive Transportation Conformity Training
 - o 100% web-based
 - o Will be available later this month

FHWA activities highlights

Project level analysis

- o Streamline CO analysis for NEPA
 - o Analysis completed
 - o Examining multiple scenarios to cover a variety of intersection geometry and traffic conditions
- o Project level analysis training

FHWA activities highlights

Research

- o Near road research
 - o 2 research projects
- o Dispersion models improvements and application
- o Data application for air quality and noise analysis

For more information

Visit FHWA's Air Quality website:

https://www.fhwa.dot.gov/environment/air_quality/